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WHAT IS CLAIMED IS:

the dynamic simulation.

1	1. A system for providing graphical and analytical dynamic modeling of a multi-
2	dimensional mechanical mechanism, said system comprising:
3	at least one processor for computing a dynamic simulation of movement of the multi-
4	dimensional mechanical mechanism, and rendering the multi-dimensional mechanical mechanism, the
5	dynamic simulation simultaneously performing kinematic and tolerance modeling; and
6	a display for displaying the rendered multi-dimensional mechanical mechanism during